

WHAT IS CLAIMED IS:

1 1. A suspension having a magnetic head assembly mounted thereon, said
2 magnetic head assembly comprising:
3 a write head for writing information to a recording medium;
4 a read head for reading said information from said recording medium; and
5 a resistive heating element for controlling flying heights of said write head and
6 said read head;
7 wherein in wiring from each terminal of said write head, said read head, and said
8 resistive heating element to said suspension, wires of said resistive heating element are disposed
9 such that they sandwich wires of said read head.

1 2. The suspension of claim 1 wherein a waveform of a current or a voltage to said
2 resistive heating element has a time constant of 1 μ sec or more.

1 3. A suspension having a magnetic head assembly mounted thereon, said
2 magnetic head assembly comprising:
3 a write head for writing information to a recording medium;
4 a read head for reading said information from said recording medium; and
5 a resistive heating element for controlling flying heights of said write head and
6 said read head;
7 wherein in wiring from each terminal of said write head, said read head, and said
8 resistive heating element to said suspension, wires of said resistive heating element are disposed
9 between wires of said write head and wires of said read head.

1 4. The suspension of claim 3 wherein a waveform of a current or a voltage to said
2 resistive heating element has a time constant of 1 μ sec or more.

1 5. A suspension having a magnetic head assembly mounted thereon, said
2 magnetic head assembly comprising:
3 a write head for writing information to a recording medium;
4 a read head for reading said information from said recording medium;

5 a resistive heating element for controlling flying heights of said write head and
6 said read head; and
7 a programmable voltage or current source for supplying power to said resistive
8 heating element to allow for variations in the power supplied to said resistive heating element to
9 account for variations in the flying height due to variations in the manufacturing process of said
10 write head and said read head.

1 6. The suspension of claim 5 wherein a waveform of a current or a voltage to said
2 resistive heating element has a time constant of 1 μ sec or more.

1 7. A suspension having a magnetic head assembly mounted thereon, said
2 magnetic head assembly comprising:
3 a write head for writing information to a recording medium;
4 a read head for reading said information from said recording medium;
5 a resistive heating element for controlling flying heights of said write head and
6 said read head; and
7 a voltage or current source for supplying power to said resistive heating element;
8 wherein in wiring from each terminal of said write head, said read head, and said
9 resistive heating element to said suspension, wires of said resistive heating element are disposed
10 to provide shielding of said read head.

1 8. The suspension of claim 7 wherein said voltage or current source is configured
2 not to switch during a data or servo signal read operation.

1 9. A suspension having a magnetic head assembly mounted thereon, said
2 magnetic head assembly comprising:
3 a write head for writing information to a recording medium;
4 a read head for reading said information from said recording medium;
5 a resistive heating element for controlling flying heights of said write head and
6 said read head; and
7 a current or voltage source for supplying power to said resistive heating element,
8 said current or voltage source providing a waveform having a time constant of 1 μ sec or more.

1 10. The suspension of claim 9 wherein in wiring from each terminal of said write
2 head, said read head, and said resistive heating element to said suspension, wires of said resistive
3 heating element are disposed to provide shielding of said read head.